

Sheet 1 of 3

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 1038-1102 MIS/bh	SERIAL NO. 09/673,133
	APPLICANT Lisa E. Myers et al	
	FILING DATE April 12, 1999	GROUP

**U.S. PATENT DOCUMENTS**

*INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUBCL.	FILING DATE
MbP		5,292,869	1994	Schryvers	530	413	
↑		5,708,149	1998	Schryvers, Anthony et al			
		5,194,254		Barber et al			
↓		4,855,283	Aug. 8, 89	Lockhoff et al			
MbP		4,258,029		Moloney et al			

**FOREIGN PATENT DOCUMENTS**

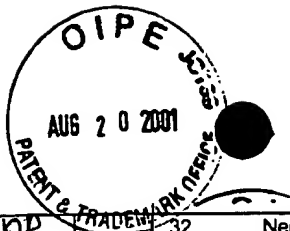
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCL.	TRANSLATION	
MbP		WO 97/13785	April 17/97	PCT			YES	NO
↑		WO 90/12591	November 1/90	PCT				
		WO 95/33049	December 7/95	PCT				
		WO 93/08283	April 29/93	PCT				
		WO 97/32980	Sept. 12/97	PCT				
		WO 97/32380		PCT				
		WO 95/34308		PCT				
		WO 94/12641		PCT				
		WO 92/17167		PCT				
↓								
MbP								

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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MDP	2.	Catlin, B.W., 1990. <i>Branhamella catarrhalis</i> : an organism gaining respect as a pathogen. Clin. Microbiol. Rev. 3: 293-320.
↑	3.	Hager, H., A. Verghese, S. Alvarez, and S.L. Berk. 1987. <i>Branhamella catarrhalis</i> respiratory infections. Rev. Infect. Dis. 9:1140-1149.
	4.	McLeod, D.T., F. Ahmad, M.J. Croughan, and M.A. Calder. 1986. Bronchopulmonary infection due to <i>M. catarrhalis</i> . Clinical features and therapeutic response. Drugs 31(Suppl.3):109-112.
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	7.	Srinivasan, G., M.J. Raff, W.C. Templeton, S.J. Givens, R.C. Graves, and J.C. Mel. 1981. <i>Branhamella catarrhalis</i> pneumonia. Report of two cases and review of the literature. Am.Rev. Respir. Dis. 123:553-555.
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	11.	Guthrie, R., K. Bakenhaster, R.Nelson, and R. Woskobnick. 1988. <i>Branhamella catarrhalis</i> sepsis: a case report and review of the literature. J.Infect.Dis. 158:907-908.
	12.	Hiroshi, Saito, E.J. Anaissie, N.Khardori, and G.P. Bodey. 1988. <i>Branhamella catarrhalis</i> septicemia in patients Cancer 61:2315-2317
	13.	O'Neill, J.H., and P.W. Mathieson. 1987. Meningitis due to <i>Branhamella catarrhalis</i> . Aust. N.Z. J. Med. 17:241-242.
	14.	Murphy, T.F. 1989. The surface of <i>Branhamella catarrhalis</i> : a systematic approach to the surface antigens of an emerging pathogen. Pediatr. Infect. Dis. J. 8:S75-S77.
	15.	Van Hare, G.F., P.A. Shurin, C.D. Marchant, N.A. Cartelli, C.E. Johnson, D. Fulton, S. Carlin, and C.H. Kim. Acute otitis media caused by <i>Branhamella catarrhalis</i> : biology and therapy. Rev. Infect. Dis. 9:16-27.
	16.	Jorgensen, J.H., Doem, G.V., Maher, L.A., Howell, A.W., and Redding, J.S., 1990. Antimicrobial resistance among respiratory isolates of <i>Haemophilus influenza</i> , <i>Moraxella catarrhalis</i> , and <i>Streptococcus pneumoniae</i> in the United States. Antibicrob. Agents Chemother. 34: 2075-2080.
	17.	Schryvers, A.B. and Morris, L.J. 1988 Identification and Characterization of the transferrin receptor from <i>Neisseria meningitidis</i> . Mol. Microbiol. 2:281-288.
	18.	Lee, B.C., Schryvers, A.B. Specificity of the lactoferrin and transferrin receptors in <i>Neisseria gonorrhoeae</i> . Mol. Microbiol. 1988; 2:827-9.
MDP	19.	Schryvers, A.B. Characterization of the human transferrin and lactoferrin receptors in <i>Haemophilus influenzae</i> . Mol. Microbiol. 1988; 2: 467-72.
Duplicate of #28	20.	<del>Schryvers, A.B. and Lee, B.C. (1988) Comparative analysis of the transferrin and lactoferrin binding proteins in the family Neisseriaceae. Can. J. Microbiol. 35, 409-415.</del> DUPLICATE #28
MDP	21.	Yu, R. and Schryvers, A.B., 1993. The interaction between human transferrin and transferrin binding protein 2 from <i>Moraxella (Branhamella) catarrhalis</i> differs from that of other human pathogens. Microbiol. Pathogenesis, 15:433-445.
↑	22.	O'Hagan, 1992. Clin. Pharmacokinet. 22:1
	23.	Ulmer et al., 1993. Curr. Opinion Invest. Drugs 2: 983-989.
	24.	Lockhoff, O., 1991. Glycolipids as immunomodulators: Synthesis and properties. Chem. Int. Ed. Engl. 30: 1611-1620.
	25.	Nixon-George, 1990. J. Immunol. 14: 4798-4802.
	26.	Wallace, R.J. Jr., Nash, D.R., and Steingrube, V.A. 1990. Antibiotic susceptibilities and drug resistance in <i>Moraxella (Branhamella) catarrhalis</i> . Am. J. Med. 88 (5A): 465-50S.
	27.	F.M. Ausubel et al., Short protocols in Molecular Biology, Greene Publishing Associates and John Wiley and Sons.
	28.	Schryvers, A.B., Lee, B.C. 1989. Comparative analysis of the transferrin and lactoferrin binding proteins in the family <i>Neisseriaceae</i> . Can. J. Microbiol. 35: 409-415.
	29.	Legrain, M., V. Mazarin, S.W. Irwin, B. Bouchon, M-J. Quentin-Millet, E. Jacobs, and A.B. Schryvers. 1993, Cloning and characterization of <i>Neisseria meningitidis</i> genes encoding the transferrin-binding proteins Tbp1 and Tbp2. Gene 130: 73-80.
	30.	Ogunnariwo, J.W., Woo, T.K.W., Lo, R.Y.C., Gonzalez, G.C., and Schryvers, A.B. Characterization of the <i>Pasteurella haemolytica</i> transferrin receptor genes and the recombinant receptor proteins. Microb. Pathog. 23:273-284 (1997).
MDP	31.	Yang, Y.P., Myers, L.E., McGuinness, U., Chong, P., Kwok, Y., Klein, M.H. and Harkness R.E. The major outer membrane protein, C.D, extracted from <i>Moraxella (Branhamella) catarrhalis</i> is a potential vaccine antigen that induces bactericidal antibodies. FEMS Immun. Med. Microbiol. 17:187-199 (1997).



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MDP	32.	Needleman, S.B., and Wunsch, C.D. 1970, J. Mol Biol. 48:443-453.
	33.	Sellers, P.J. 1974 On the theory and computation of evolutionary distances, J. Appl. Math (Siam) 26:787-793.
	34.	Waterman, M.S., Smith, T.F., and Beyer, W.A. 1976. Advan. Math. 20:367-387.
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	36.	Anderson et al (1994) J. Bacteriology 176: 3162-3170
	37.	Gray-Owen et al (1995) Infection and Immunity 63: 1201-1210
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	41.	Smith, T.F., and Waterman, M.S. 1981 Identification of common molecular subsequences. J. Mol. Biol. 147:195-197.
	42.	Jimenez-Montano, M. and Zamora-Cortina, L. 1981 Evolutionary model for the generation of amino acid sequences and its application to the study of mammal alpha-hemoglobin chains. Proc. VII Int. Biophysics Congress, Mexico City.
	43.	Sobel, E. and Martinez, H.M. 1985 A Multiple Sequence Alignment Program. Nucleic Acid Res. 14:363-374.
MDP	44.	Myers, L.E. et al, 1998, The transferrin binding protein B of Moraxella Catarrhalis elicits bactericidal antibodies and is a potential vaccine antigen. Infect. And Immunity, Vol. 66, No. 9, pages 4183-4192
EXAMINER: MICHAEL PRU		DATE CONSIDERED: 6/19/06

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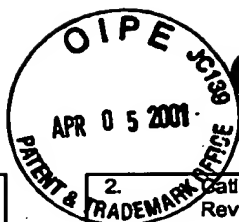
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## FOREIGN PATENT DOCUMENTS

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EXAMINER: MICHAEL PAUL DATE CONSIDERED: 1646

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\*\* - To follow later

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